



Massachusetts  
Department  
of  
ENVIRONMENTAL  
PROTECTION

## Fact sheet

# 3<sup>rd</sup> Annual Progress Report on the Beyond 2000 Solid Waste Master Plan

The 3<sup>rd</sup> Annual Progress Report includes the following sections:

- 2002 Solid Waste Data and Waste Management Capacity Projections
- Update on waste reduction accomplishments in FY 2004

### **Waste Reduction Highlights**

In 2002, Massachusetts recorded:

- An overall waste reduction rate of 55%, down 2% from 2001.
- An increase in the overall recycling rate from 46% to 47%.
- A 3.5% increase in generation.
- A 2% increase in waste disposed.

### **Waste Reduction Milestones**

In 2002	By 2010:
• <b>55% Total waste reduction</b>	• <b>70% total waste reduction</b>
• <b>86% C&amp;D reduction</b>	• <b>88% C&amp;D reduction</b>
• <b>38% MSW reduction</b>	• <b>60% MSW reduction</b>

### **Environmental and Economic Benefits**

Through a combination of source reduction and recycling, Massachusetts prevented the disposal of 8 million tons of waste through source reduction and recycling in 2002 – the equivalent of 22 new 1,200 ton per day disposal facilities.

Through recycling and composting in 2002, Massachusetts<sup>1</sup>:

- Reduced greenhouse gas emissions by more than 1million tons of carbon equivalent per year.
- Saved nearly 12 trillion BTUs of energy, equivalent to the annual energy consumption of 115,000 households, 2.1 million barrels of oil, or more than 100 million gallons of gasoline.
- Saved nearly 570,000 tons of iron ore, coal, and limestone and saved more than 16 million trees.

Recycling, reuse, and remanufacturing directly support 19,000 jobs in Massachusetts, maintain a payroll of nearly \$600 million, and bring in annual revenues of \$3.6 billion. Total direct and indirect economic activity from recycling, reuse, and remanufacturing is estimated to generate more than \$142 million annually in state revenues for Massachusetts<sup>2</sup>.

### **Waste Management Capacity Projections**

The 2000 Master Plan set a goal of no net export or import of solid waste by 2006 and recognized that in addition to aggressive waste reduction, additional landfill capacity was needed to maintain a balanced waste management system. Based on planned landfill projects it is clear that Massachusetts will not reach a no net import or export level by 2006. Since the 2001 Progress Report was issued, the Department of Environmental Protection (DEP) permitted approximately 1.3 million tons of annual landfill capacity through expansions at existing landfills.

<sup>1</sup> Source: *Recycling Environmental Impacts Model*, Northeast Recycling Council, October 2003.

<sup>2</sup> *Recycling Economic Information Study*, prepared for the Northeast Recycling Council by R.W. Beck, Inc, June 2000.

## ***FY04 Waste Reduction and Oversight Accomplishments***

- **Product Stewardship:** Worked with the carpet industry and other states to implement the Carpet America Recovery (CARE) agreement; secured a \$50,000 Electronics Industry Alliance grant on electronics collection with Massachusetts Goodwill facilities; and worked with Bottle Bill stakeholders to develop recommendations to support revisions to the Bottle Bill regulations.
- **Source Reduction:** Assisted 30 municipalities considering Pay As You Throw programs; continued to award home compost bin grants and hold workshops; and facilitated surplus equipment exchanges for municipalities.
- **Hazardous Products Reduction:** Supported development of regional collection programs; provided six school chemical management grants and supported other efforts to remove mercury from schools and hospitals; funded workshops on reducing use of pesticides and fertilizers.
- **Commercial Recycling and Composting:** Expanded the Supermarkets Recycling Organics Initiative to more than 50 stores; developed a food waste recycling brochure for haulers and fact sheet; established Earth's 911 Business Recycling Website with Earth's 911 and Staples, Inc.; and established business recycling partnerships in nine municipalities.
- **Residential Recycling and Composting:** Funded 22 technical assistance projects; provided targeted recycling and composting equipment grants; held Annual Waste Reduction forum; and held extensive workshops and training sessions.
- **Market Development:** Awarded four Recycling Industry Reimbursement Credit (RIRC) grants for more than \$150,000, leveraging an additional \$270,000 in matching funds for development of organics and C&D processing capacity; and awarded a \$185,000 loan through the Recycling Loan Fund to a composting business.
- **Construction and Demolition Debris (C&D):** Finalized proposed regulations and guidance for waste ban on asphalt, brick and concrete, wood and metal; worked with the C&D Subcommittee and Work Groups on C&D processing, market development, and other issues; supported a clean wood separation study; completed a wood market analysis; and worked with gypsum manufacturers and other stakeholders to increase recycling of gypsum wallboard.
- **Solid Waste Regulatory and Policy Development:** Published for public comment draft revisions to 310 CMR 19.000, the solid waste permitting regulations, and accompanying guidance; assessed transfer station risks and developed recommendations to improve DEP's oversight; developed standards for co-compost materials; and developed draft guidance on managing hydrogen sulfide emissions and risks at landfills.
- **Solid Waste Permitting, Compliance and Enforcement:** Issued over 200 permits in calendar year 2003, including eight landfill permits for more than 1.3 million tons of annual disposal capacity; oversaw three inactive landfill closures; completed almost 500 inspections, including 100 waste ban inspections; and took 85 enforcement actions resulting in over \$300,000 in penalties.
- **Waste Planning:** Continued to gather annual recycling, composting, and disposal data; began development of electronic reporting of compost reports, recycling processor surveys, and other solid waste facility reports for calendar year 2004; continued to coordinate activities of the Solid Waste Advisory Committee and subcommittees; and began to re-evaluate the Beyond 2000 Master Plan.

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(617) 574-6872.



The 3<sup>rd</sup> Annual Progress Report is available on DEP's Web Site at:  
<http://www.mass.gov/dep/bwp/dswm/dswmpubs.htm>. For more information, email:  
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